

Year 5 Maths Assessment: Mastering Time

Learning objective: To calculate intervals of time, convert between units, and solve problems involving 12-hour and 24-hour clocks.

Read each question carefully. Show your working out in the space provided to ensure you gain marks for your method, even if your final answer is slightly incorrect. Use the £ symbol where money is mentioned.

Max the monkey is organising a jungle sports day. He needs to track the time for different activities to ensure everything runs smoothly. He uses a stopwatch to record the fastest runners and a schedule to plan the lunch break. He has also been given a budget of £50.00 to buy prizes, which must be purchased before the shops close at 17:30.

Word bank: Duration · Interval · AM · PM · 24-hour clock · Digital · Analogue

1. Max starts the relay race at 09:45 AM. The race lasts for 1 hour and 25 minutes. What time does the race finish? Give your answer in 12-hour format. (2 marks)

2. Convert these times into the 24-hour clock format: a) 3:15 PM, b) 11:05 PM, c) 12:30 AM. (3 marks)

3. If a sprinter runs 100 metres in 14.5 seconds, and their friend runs it in 16.2 seconds, what is the difference in their times? Show your calculation. (3 marks)

4. Max goes to the shop at 16:15. If the shop closes at 17:30, how much time does he have left to shop? Give your answer in minutes. (3 marks)

5. The jungle sports day ends at 15:45. Max spends 45 minutes packing up equipment, then he travels for 1 hour and 15 minutes to get home. What time does he arrive home? (4 marks)

6. Max wants to buy 5 gold medals for the winners. Each medal costs £4.50. He arrives at the shop at 16:30. Explain if he has enough time to buy the medals and if he has enough money from his £50.00 budget. Show your full workings. (5 marks)

7. If it is 22:15, how many minutes are there until midnight? (2 marks)

8. A clock shows 08:30. In 3 hours and 45 minutes, what time will it be? Use the 24-hour clock. (3 marks)

Draw: Draw an analogue clock face showing the time 14:45 (quarter to three in the afternoon). Label the hour hand and the minute hand clearly.

Extension challenge: Total: /25. Challenge: If a train leaves at 07:40 and arrives at 11:12, how long was the journey in hours and minutes?